Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Please add new claim(s) 11-17.

Please amend claims 1, 2, and 7 as indicated below (material to be inserted is in **bold and underline**, material to be deleted is in **strikeout** or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in double brackets [[]]):

Listing of Claims:

Claim 1 (Currently Amended). For use with an optical microscope, a stage assembly mountable on an optical microscope for orienting a sample into a desired focal position comprising:

an X-axis plate operable for rectilinear sliding shifting in the X-axis direction;

a Y-axis plate mounted on the X-axis plate operable for rectilinear <u>sliding</u> translation in the Y-axis direction, the X-axis plate and the Y-axis plate defining an XY plate assembly;

a Z-axis plate mounted on the XY plate assembly for configured to carry carrying a sample to be investigated; and

a piezoelectric actuator mechanism interposed between the XY plate assembly and the Z-axis plate operable for rectilinear translation of the Z-axis plate, wherein the X-axis, Y-axis, and Z-axis plates each includes an internal opening configured to allow passage of transmitted light and viewing of the sample by an objective lens of the optical microscope.

Claim 2 (Currently Amended). The stage assembly of claim 1 wherein the piezoelectric actuator mechanism includes three spaced-apart portions piezoelectric

actuators for engaging the Z-axis plate.

Claim 3 (Original). The stage assembly of claim 1 wherein the X-axis plate, Y-

axis plate and Z-axis plate are arranged to locate the sample in proximity to the design

focal position of the microscope.

Claim 4 (Original). The stage assembly of claim 2 wherein the piezoelectric

actuators are mounted on the Y-axis plate and engage the Z-axis plate.

Claim 5 (Original). The stage assembly of claim 4 wherein the three spaced-

apart piezoelectric actuators are operable to rectilinearly translate the Z-axis plate along

the Z-axis direction in increments of less than 0.05 micrometers.

Claim 6 (Original). The stage assembly of claim 1 wherein the Z-axis plate is

mounted on the XY plate assembly for travel therewith.

Claim 7 (Currently Amended). A method for use with an optical microscope to

facilitate focusing of an image comprising the steps of:

providing an XY plate assembly including an X-axis plate rectilinearly translatable

<u>slidable</u> in the X-axis direction and a Y-axis plate mounted thereon rectilinearly

slidable translatable in the Y-axis direction;

positioning a Z-axis plate on the XY assembly and mounting a sample on the

plate, wherein the X-axis, Y-axis, and Z-axis plates each includes an internal opening

configured to allow passage of transmitted light and viewing of the sample by an

objective lens of the optical microscope; and

rectilinearly translating the Z-axis plate along the Z-axis for bringing the sample

into focus.

Claim 8 (Original). The method of claim 7 wherein the rectilinear translation of

the Z-axis plate includes the step of engaging the Z-axis plate with a piezoelectric

mechanism.

Claim 9 (Original). The method of claim 8 wherein the step of engaging the Z-

axis plate is accomplished by piezoelectric actuators interposed between the XY plate

assembly and the Z-axis plate.

Claim 10 (Original). The method of claim 7 wherein the step of mounting the

sample includes mounting a slide insert on the Z-axis plate with the sample held

thereby.

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Claim 11 (New) A stage assembly for positioning a sample into a desired focal position for viewing with an optical microscope comprising:

an XY plate assembly including an X-axis plate configured to slide in the X-axis direction and a Y-axis plate mounted on the X-axis plate configured to slide in the Y-axis direction;

a Z-axis plate mounted on the XY plate assembly;

a stage insert configured to selectively mount on the Z-axis plate and support the sample;

a piezoelectric actuator mechanism interposed between the XY plate assembly and the Z-axis plate configured to translate the Z-axis plate in the Z-axis direction, wherein the X-axis, Y-axis, and Z-axis plates each include an internal opening for viewing the sample on the stage insert with the optical microscope.

Claim 12 (New) The stage assembly of claim 11, wherein the stage insert is dimensioned to position the sample proximal to the designed focal position of the optical microscope when mounted on the Z-axis plate.

Claim 13 (New) The stage assembly of claim 11, wherein the piezoelectric actuator mechanism includes spaced-apart piezoelectric actuators for engaging the Z-axis plate.

Claim 14 (New) The stage assembly of claim 13, wherein the spaced-apart piezoelectric actuators are mounted on the Y-axis plate and engage the Z-axis plate.

Claim 15 (New). The stage assembly of claim 14, wherein the spaced-apart piezoelectric actuators are operable to rectilinearly translate the Z-axis plate along the Z-axis direction in increments of less than 0.05 micrometers.

Claim 16 (New). The stage assembly of claim 11 wherein the Z-axis plate is mounted on the XY plate assembly for travel therewith.

Claim 17 (New) The method of claim 7, further comprising the steps of: removing the sample from the Z-axis plate;

mounting a second sample on the Z-axis plate; and rectilinearly translating the Z-axis plate along the Z-axis for bringing the second sample into focus.